

SEQUENCE LISTING

*Zauderer, Maurice
Evans, Elizabeth E.
Borrello, Melinda A.*

*<120> Gene Differentially Expressed in Breast Cancer and
Encoded Polypeptides*

<130> 1821.0040001

*<140>
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*<150> 60/194,463
<151> 2000-04-04*

<160> 84

<170> PatentIn Ver. 2.1

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JW
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jmv
AI)

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<212> DNA

<213> Homo sapiens

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<211> 460

<212> DNA

<213> Homo sapiens

<400> 27

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agtctcgccct cgggggcaca ggtgttttgc agatagat aaatggacag ctgggtttct 180
ccaagctgga gaatggggc ttccctatg agaaagatct cattgaggcc atccgaagag 240
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gactgcacag gactctgggg tcctgcattt ggttctnngg gtccaaaact tgggtcttcc 360
ttttgggcct gcttggact ttcccctggc tcnttttccc caatttagct cccttagnca 420
aaaagaanct tgggcttcan atttgnccct ttgggaaaag 460

<210> 28

<211> 436

<212> DNA

JWS
AI

<213> Homo sapiens

<400> 28
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gataaatgaa cagctgggt tctccaagct ggagaatggg ggcttccct atgagaaaaga 180
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tgggtccaa accttgggtc tcacttttgtt cctgctggga agctccccct gcctctttc 360
ccctacttaa gtcncntaag caaaagagaa ctttgggcct ccaantttgg cccttnggt 420
acaaaaagaa aggnat 436

<210> 29
<211> 391
<212> DNA
<213> Homo sapiens

<400> 29
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gttcgagccg ggcagtgggg tccgcacatcggt ggtggagttac tgtgaaccct gcggcttcga 120
ggcacctac ctggagctgg ccagtgtgtt gaaggagcag tatccggca tcgagatcga 180
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caagctggag aatnngggct ttccttatga gaaagatctt cattgaggcc atccgaagag 300
cagtaatng agaaacccta gaaaagatca ccaacagccg tccttccttg cgtnacatct 360
gttnacttnc acaaggattc ttgggtttcc t 391

<210> 30
<211> 386
<212> DNA
<213> Homo sapiens

<400> 30
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gggtcccgat cgtgtggag tactgtgaac cctgcggctt cgaggcgacc tacctggagc 120
tggccagtc tgcgtggag cagtatccgg gcatcgagat cgagtgcgc ctcggggca 180
caggtgcitt gagatagaga taaatggaca gctgggttcc tccaaagctgg agaatgggg 240
cttcccttat gagaagatc ttcatggagg ccatccgaag agccagtaat gggagaaacc 300
cttagaaaaag attcaccaac agccgttcc cccctggcggtt cattccttgt tgaattgcac 360
agggattttt gggtttccntg ttttgt 386

<210> 31
<211> 348
<212> DNA
<213> Homo sapiens

<400> 31
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cagtgctgtg aaggagcgt atccggcat cgagatcgag tcgcgcctcg ggggcacagg 120
tgctttgaga tagagataaa tggacagctg gtgtttccaa agctggagaa tgggggctt 180
ccctatgaga aagatctcat tgaggccatc cgaagagcga gtaatngaga aaccctagaa 240
aagatcacca acagccgtcc tcccttcgtt catccttgta ctgcacaggg attctgggtt 300
ccttggctcg ttctnggggt tcaaaccctt gggtnactt ttgggtcct 348

<210> 32
<211> 344
<212> DNA
<213> Homo sapiens

JMS
AI

<400> 32
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cgaggaggc gacccggca gtgggtccg catctggtg gactactgtt aaccctgcgg 120
cttcgaggcg acctacctgg agctggccag tgcgttnaag gagcagtatc cgggcatcga 180
gatcgagtcg cgctcgggg gcacagggtgc cttnagata gagataaaatg gacagcttgt 240
gttctccaag ctggagaatg gggggcttc cctatgagaa agatctcatt gaggccatcc 300
gaangngccag taaatggaga aaccctagaa aagatcacca acag 344

<210> 33
<211> 532
<212> DNA
<213> Homo sapiens

<400> 33
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ataaataaaa tctgtggcat cagacagta ttaccgaggc gaagagtggc ctgggcttc 120
gtgggactt accctggaa ggggtatga ggtggctggc gaagtgttca tggagagtgt 180
ctctctccgt cccccaaggc cacggaatct tctattcctt ctgttaccc aaaggggcaa 240
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cagcaggacc aaaggggagac caagggttgg accccagaac agagcaggaa cccagagttcc 360
tgtgcagtca caggatgacg caggaggac ggctgttggt gatctttctt aagggttttcc 420
cattactgac tcttcggatg gcctcaatga gatcttctc ataggaaag ccccccattct 480
ccagcttggc gaacaccagc tgtccatatta tctctatctc aaaggcacct gt 532

<210> 34
<211> 309
<212> DNA
<213> Homo sapiens

<400> 34
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gagggtcgagc cgggcagtgg ggtccgcata gtgggtgggt actgtgaacc ctgcggcttc 120
gaggcgcacctt acctggagct ggccatgtgt tgaaggagca gtatccgggc atcgagatcg 180
agtgcgcctt cgggggcaca ggtgcctttt agatagagat aaatngacan ctgggtttct 240
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ccataatgg 309

<210> 35
<211> 571
<212> DNA
<213> Homo sapiens

<400> 35
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ggcacttacc ctgggaaggg ggtatgggt tggctggaga agtgttcatg gagagtgtct 180
ctctcctgcc cccaaaggcc cggaaatctt tattccttattt ttgtacccaa agggcaaaatgt 240
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gcaggaccac agggagacca aggtttggac cccagaacac agcagaacc cagagtccgt 360
tgcagtcaac ggtatgacgc gggaggacgg ctnttgggtgt tctttcttag gtttctcca 420
ttactggctc ttccgtatggc ctcaatgaga tctttcttag gggaaagccc cattctccag 480
cntggagaac accagctgtc canttatctc tatctcaaanc gcacctgtgc cccgaagcgc 540
gactcgattt tcgatgccccg gatactgttc c 571

<210> 36
<211> 263
<212> DNA
<213> Homo sapiens

JMS
A1

<400> 36

ggggcagacg tccgtancgc cccctccga ggaggtcgag ccgggcagtg gggccat 60
cgtggtagag tactgtaac cctgcggctt cgaggcgacc tacctggagc tggccagtgc 120
tgtgaaggcg cagtatccgg gcatacgagat cgactgcgc ctcggggca caggtgctt 180
gagatagaga taaatggaca gctggttc tccaagctgg agaatggggg cttdccctg 240
agaaaagatct cattaggcc cat 263

<210> 37

<211> 528

<212> DNA

<213> Homo sapiens

<400> 37

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agaataaata aaatctgtgg catcagacag gtattaccga ggcgaagagt gactgggct 120
ttcgtggca cttacccctgg gaagggggta ttaggtggct ggagaagtgt tcatggagag 180
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tcccagcagg accaaaggga gaccaaggtt tgaccccaag aacagagcag gaacccagag 360
tccttgcga gtcacaggat gacgcangga ggacggctgt tggtgatctt ttcttaggggt 420
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<210> 38

<211> 290

<212> DNA

<213> Homo sapiens

<400> 38

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ccgaggaggt cgagccgggc agtggggctcc gcatctgtgtt ggagtactgt aaaccctgcg 120
gcttcgagggc gacctacctg gagctggcgtt gtgtgttnaa ggagcgtat ccgggcacatcg 180
agatcgantc gcgcctcggg ggcacaggtt ctttaagat agagataat ggacagctgg 240
tggctccaa gctngagaat gggggcttn cctatgagaa agatctcatt 290

<210> 39

<211> 320

<212> DNA

<213> Homo sapiens

<400> 39

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atagagataa atggacagct ggtgttctcc aagctcgaga atggggctt tncctatgag 180
aaagatctca ttgaggccat ccgaagagcc agtaatggag aaaccttagaa aagttcacca 240
acagccgtcc ttccctncgtc attctattga ctgcacagga ttctnggtt cngctntgt 300
tttgggnctc caaacctttg 320

<210> 40

<211> 321

<212> DNA

<213> Homo sapiens

<400> 40

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gagataaaatg gacagctggt gttctccaa ctggagaatg ggggccttcc ctatgagaaa 120
gatctcatgtt agggccatccg aagagccagt aatngggagaa acccttagaaa agatcaccaa 180
cagccgtcc acctgtgtca tcctgtact gcacaggact ctgggttct gctctgttct 240

gggggtccaa accttggnc tccttnggt ccctnttggg angttcccct tgctttttt 300
ccctaattan gttccctagga a 321

DNA
X1

<210> 41
<211> 456
<212> DNA
<213> Homo sapiens

<400> 41

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gggtcccgcat cgtgggtggag tactgtgaac cctgcggcgtt cgaggcgacc tacctggagc 120
tggccagtgc tgtgaaggag cagtatccgg gcatcgagat cgagtcgcgc ctcgggggac 180
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ccaacagtc atcatcctgt battccactc ctctagctca ttgaggccat ccgaagagcc 360
agtaatggag aaaccctaga aaagatcacc aacagccgtc ctccctgcgt catcctgtga 420
ctgcacagac tctgggttct gctctgttct ggggtc 456

<210> 42

<211> 458

<212> DNA

<213> Homo sapiens

<400> 42

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gtnttacnna ggcgaagagt ggactgggct ttcgtggca cttaccctgg gaagggggta 120
tgaggtggct ggagaagttt tcatggagag tggctctctc ctgccccaa ggccacggaa 180
tcttctatcc cttctttgtt cccaaaggcc aaagtggagg ccagggtctc tttgctaagg 240
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tggaccccaag aacagngcag gaacocagag tcctgtgcag tcacaggnig acgcaggag 360
gacggctntt tggtgatctt ttctaaagggt tctccttact ggctttcgg atggcctcaa 420
tgagnttttc tcataaggaa agcccccattt tncagttt 458

<210> 43

<211> 452

<212> DNA

<213> Homo sapiens

<400> 43

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ggcacttac cctggaaagg gggatggagg tggctggaga agtggcatg gagagtgtct 180
ctctcctgcc cccaaaggcc cggaatcttcc tattccttct ttgtacccaa agggcaaaat 240
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tgcagtcaca ggatgacgca gggaggacgg ctgttggta tctttcttag ggtttctcca 420
ttactggctc ttcatggatggc ctcaatgagc ta 452

<210> 44

<211> 444

<212> DNA

<213> Homo sapiens

<400> 44

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aataaaaatct gtggcatcag acaggtatta ccgaggcga gagtggactg gccttcgt 120
ggcacttacc ctggaaagg ggtatgggt ggctggagaa gtgttcatgg agagtgtctc 180
tctcctgcc ccaaggccac ggaatcttctt attccttctt tgcacccaa gggcaaaatg 240

gaggccaggg tctctttgt aaggagctaa gtagggaaa gaggcagggg gagctcccag 300
caggaccaa gggagaccaa ggtttggacc ccagaacaga gcaggaaccc agagtcctgt 360
gcagtcaacag gatgacgcag ggaggacggc tgggtgtat ctttcttagg gtttctccat 420
tactggctc tcggatggcc tcaa 444

JMS
A1

<210> 45
<211> 232
<212> DNA
<213> Homo sapiens

<400> 45
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aggtcgagcc gggcagtggg gtccgcattcg tgggtggatg ctgtaaaccc tgcggcttcg 120
aggcgaccta cctggagctg gccagtnotg tgaaggagca gtatccggc atcgagatcg 180
antcgcgctt cgggggcaca ggtgcctta agatagat aaatggacag ct 232

<210> 46
<211> 456
<212> DNA
<213> Homo sapiens

<400> 46
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gggagaataa ataaaatctg tggcatcaga dagtattac cgaggcgaag agtggactgg 120
gcttcgtgg gcacttaccc tgggaagggg gtatgaggtg gctggagaag ttttcatgga 180
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agctcccagc aggaccaaag ggagaccaag gtttgaccc cagaacacag caggaaccca 360
gagtccctgtg cagtcacagg atgacgcagg gaggacggct gtttgtatc tttcttaggg 420
tttctccatt actggctt actggctc aatgag 456

<210> 47
<211> 556
<212> DNA
<213> Homo sapiens

<400> 47
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ttaaaaattt caaaaaattt actggggcgt gtttgccgcgcaccttggat atcccagcta 420
cttttgggan ggcttggggg caggaagaat cgcttgaac ctggaaagggt tggaggttc 480
agttgaancc gaggttcgca ccactgcatt tccagccttggggaaanagg gcgaaactcc 540
gtntccaaaaa aataat 556

<210> 48
<211> 461
<212> DNA
<213> Homo sapiens

<400> 48
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gtgggcactt accctggaa ggggtatgag gtggctggag aagtgttcat gtagatgttc 180
tctctcctgc ccccaaggcc acggaaatctt ctattccttc tttgtaccca aaggccaaatg 240

gaggccagg gtctttgc taaggagcta agtagggaa aaaggcaggg ggagctcca 300
gcaggacaa agggagacca aggttggac cccagaacag agcaggaacc cagagtcc 360
tgcatcaca ngatgacgca gggaggacgg ctnttggta tctttctag gtttctcca 420
ttacttgctc ttcgatggc ctoaatgaga tctttctcat a 461

JN
A1
<210> 49
<211> 434
<212> DNA
<213> Homo sapiens

<400> 49
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aaaatctgt gcatcagaca ggtattaccc aggcgaagag tggactggc tttcgtggc 120
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tggctttcg gatg 434

<210> 50
<211> 434
<212> DNA
<213> Homo sapiens

<400> 50
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aaaatctgt gcatcagaca ggtattaccc aggcgaagag tggactggc tttcgtggc 120
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tggctttcg gatg 434

<210> 51
<211> 459
<212> DNA
<213> Homo sapiens

<400> 51
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ctggggtcca aaccttggtc tccctttgt ctgtctggg gctcccccctg cctctttccc 180
ctacttagct ctttagcaaa gagaccctgg cttccactt gccctttgtt acaaagaagg 240
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gccacctcat acccccttcc cagggtaagt gccacgaaa gcccagtcca ctcttcgcct 360
cggtataacc tgtctgtatgc cacagattt atttattctc cctaaccag ggcaatgtca 420
gctattggca gtaaagtggc gctacaaaca ctaaaaaaa 459

<210> 52
<211> 451
<212> DNA
<213> Homo sapiens

<400> 52
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taggggagaa taaataaaat ctgtggcatac agacaggtt taccgaggcg aagagtggac 120

JMV
AI

tgggctttcg	tgggactta	ccctggaaag	ggggtatgag	gtggctggag	aagtgttcat	180
ggagagtgtc	tctctcctgc	ccccaaaggcc	acggaatctt	ctattccttc	tttgtaccca	240
aaggggcaaa	gtggaggcca	gggtctttt	gctaaggagc	taagttaggg	aaagaggcag	300
ggggagctcc	cagcaggacc	aaagggagac	caaggtttg	accccagaac	agagcaggaa	360
cccagagtcc	tgtcagtc	caggatgacg	caggaggac	ggctgttgg	gatctttct	420
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<210> 53
<211> 447
<212> DNA
<213> Homo sapiens

<400> 53
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tcgtggcac ttaccctggg aagggggtat gaggtggctg gagaagtgtt catggagagt 180
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ccagcaggac caaagggaga ccaaggttt gaccccgaaa cagagcagga acccagagtc 360
ctgtcagtc acagagatnac gcagggagga cggctgttgg tgatctttc tagggtttct 420
ccattactgg ctcttcggat ggcctca 447

<210> 54
<211> 473
<212> DNA
<213> Homo sapiens

<400> 54
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aaataaaaatc tgtgcacatca gacaggattt accggaggcga agagtggact gggctttcgt 120
gggcacttac cctggaaagg gggtatgagg tggctggaga agtgttcatg gagagtgtct 180
cactcctgcc cccaaggcca cggaaatcttctt tattccttct ttgtacccaa aggcaaaagt 240
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caggaccaaa gggagaccaa gggttggac cccagaacag agcaggaacc cagagtccctg 360
ttgcagtcac aggtatgacgc agggaggacg gctgttggt atctttctt agggtttctc 420
cattacttgc tcttcggat ggcctcaatg agatctttc tcataaggga aat 473

<210> 55
<211> 454
<212> DNA
<213> Homo sapiens

<400> 55
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gggcacttac cctggaaagg gggtatgagg tggctggaga agtgttcatg gagagtgtct 180
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gcaggaccaa agggagacca aggttggac cccagaacag agcaggaacc cagagtccctg 360
tgcagtcaca ggnttgaccg cagggaggac cggctgttgg tgatcctttt ctagggtttc 420
tccattactg gctttccgg atggncatca tgtag 454

<210> 56
<211> 394
<212> DNA
<213> Homo sapiens

<400> 56

JMS
A1

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<213> Homo sapiens

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<211> 421
<212> DNA
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cccagcaga ccaaaaggag accaagggtt ggacccaga acagagcagg aacccagaagt 360
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<212> DNA
<213> Homo sapiens

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<211> 434
<212> DNA
<213> Homo sapiens

<400> 60

210 A1

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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<210> 63
<211> 401
<212> DNA
<213> Homo sapiens

<400> 63
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<212> DNA
<213> Homo sapiens

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JW
A1

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<212> DNA
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<211> 792
<212> DNA
<213> Homo sapiens

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ataaaaaanaa anaaaaaann ttgagnggg gnccnganc cnaatttngc ncantnnng 720
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<212> DNA
<213> Homo sapiens

<400> 67
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JW2
A1

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<211> 483
<212> DNA
<213> Homo sapiens

<400> 68
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caagaccaaa gggagaccaa gggttggacc ccagaacaga gcaggaaccc agagtctgt 360
gcagtcacag gatgacgcag ggaggacggc tgggtgtat ctttcttagg gtttctccat 420
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gct 483

<210> 69
<211> 449
<212> DNA
<213> Homo sapiens

<400> 69
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ccattactgg ctcttcggat ggcctcaat 449

<210> 70
<211> 594
<212> DNA
<213> Homo sapiens

<400> 70
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<210> 71
<211> 389
<212> DNA
<213> Homo sapiens

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tcgtggcac ttaccctggg aaggggatgttggc gagggtggc gagaagtgtt catggagatg 180
gtctctctcc tggcccaag gccacggaaatc ttcttatttctt tttttgtac ccaaggcga 240

JW
AI

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cccagcagga ccaaaggag accaagggtt ggaccccaga acagagcagg aaccaggag 360
cctgtgcagt cacaggatga cgccaggag 389

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<211> 405
<212> DNA
<213> Homo sapiens

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ggcacttacc ctggaaaggg pgtatgaggt ggctggagaa gtgttcatgg agagtgtc 180
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<210> 73
<211> 396
<212> DNA
<213> Homo sapiens

<400> 73
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agtccctgtgc agtcacagga tgacgcaggg aggacg 396

<210> 74
<211> 392
<212> DNA
<213> Homo sapiens

<400> 74
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<210> 75
<211> 372
<212> DNA
<213> Homo sapiens

<400> 75
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372

210 <210> 76

<211> 380

<212> DNA

<213> Homo sapiens

211 <400> 76

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<210> 77

<211> 374

<212> DNA

<213> Homo sapiens

<400> 77

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<210> 78

<211> 386

<212> DNA

<213> Homo sapiens

<400> 78

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<210> 79

<211> 451

<212> DNA

<213> Homo sapiens

<400> 79

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JW2
AI
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<211> 311
<212> DNA
<213> Homo sapiens

<400> 80
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<210> 81
<211> 412
<212> DNA
<213> Homo sapiens

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<210> 82
<211> 372
<212> DNA
<213> Homo sapiens

<400> 82
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<210> 83
<211> 401
<212> DNA
<213> Homo sapiens

<400> 83
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aaaacaaagc aggaacccaa agtcctgtgc agtcacaggaa t 401

<210> 84
<211> 733

JW
A1

<212> DNA

<213> Homo sapiens

<400> 84

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